



PTO/SB/08a (07-09)

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Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/582,918-Conf. #8250
				Filing Date	June 14, 2006
				First Named Inventor	Burkhard KROGER
				Art Unit	1636
				Examiner Name	M. K. Joike
Sheet	1	of	12	Attorney Docket Number	PKI-186US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1*	US-4,489,160	12-18-1984	Katsumata et al.	
	A2*	US-4,601,893	07-22-1986	Cardinal	
	A3*	US-5,158,891	10-27-1992	Takeda et al.	
	A4*	US-5,175,108	12-29-1992	Bachmann et al.	
	A5*	US-5,759,610	06-02-1998	Nishimoto et al.	
	A6*	US-5,965,391	10-12-1999	Reinscheid et al.	
	A7*	US-6,238,896	05-29-2001	Ozaki et al.	
	A8*	US-20020197605-A1	12-26-2002	Nakagawa et al.	
	A9*	US-20030049804-A1	03-13-2003	Pompejus et al.	
	A10*	US-20030092137	05-15-2003	Farwick et al.	
	A11*	US-20030162267-A1	08-28-2003	Pompejus et al.	
	A12*	US-20030175503-A1	09-18-2003	Lucast et al.	
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	A18*	US-7,313,177	12-25-2007	Radjassamy	
	A19*	US-20080118948	05-22-2008	Kroger et al.	

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	B1	EP-0472869-B1	03-04-1992	DeGussa AG	
	B2	WO-96/15246-A1	05-23-1996	Forschungszentrum Jülich GmbH	
	B3	DE-4440118-C1	11-09-1995	Forschungszentrum Jülich GmbH	Abstr.
	B4	JP-10-229891	09-02-1998	Mitsubishi Rayon Co.	Abstr.
	B5	WO-01/00804-A2	01-04-2001	BASF Aktiengesellschaft	
	B6	WO-01/00842-A2	01-04-2001	BASF Aktiengesellschaft	

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B7	WO-01/00843-A2		01-04-2001	BASF Aktiengesellschaft		
B8	WO-01/00844-A2		01-04-2001	BASF Aktiengesellschaft		
B9	WO-02/29029-A2		04-11-2002	DeGussa AG		
B10	WO-02/051231-A1		07-04-2002	BASF Aktiengesellschaft		
B11	DE-10112992-A1		09-26-2002	DeGussa AG		Abstr.
B12	WO-03/040373-A2		05-15-2003	DeGussa AG		

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	B13	CA-2548306-A1	06-30-2005	BASF Aktiengesellschaft		
	B14	CA-2549171-A1	06-30-2005	BASF Aktiengesellschaft		
	B15	WO-05/059143-A1	06-30-2005	BASF Aktiengesellschaft		
	B16	WO-05/059144-A1	06-30-2005	BASF Aktiengesellschaft		

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	C2	Bernard, Philippe et al., "The F Plasmid CdcB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase," <i>J. Mol. Biol.</i> , Vol. 234:534-541 (1993)	
	C3	Blomfield, I.C. et al., "Allelic exchange in <i>Escherichia coli</i> using the <i>Bacillus subtilis</i> <i>sacB</i> gene and a temperature-sensitive pSC101 replicon," <i>Molecular Microbiology</i> , Vol. 5(6):1447-1457 (1991)	
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	C7	de León, Patricia et al., "Streptomyces lividans groES, groEL1 and groEL2 genes," <i>Microbiology</i> , Vol. 143:3563-3571 (1997)	
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	C10	Eikmanns, Bernhard J. et al., "Nucleotide sequence, expression and transcriptional analysis of the <i>Corynebacterium glutamicum gltA</i> gene encoding citrate synthase," <i>Microbiology</i> , Vol. 140:1817-1828 (1994)	

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	C15	GenBank AC AB055218, Nakagawa, S. et al., "SOD of <i>Corynebacterium glutamicum</i> ATCC 13032," 08-02-2001		
	C16	GenBank AC AF236111, Merkamm, M. et al., "Cloning of the sodA gene from <i>Corynebacterium melassecola</i> and role of superoxide dismutase in cellular viability," <i>J. Bacteriol.</i> , Vol. 183(4):1284-1295 (2001) 02-07-2001		
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	C21	Guerrero, Carmen et al., "Directed mutagenesis of a regulatory palindromic sequence upstream from the <i>Brevibacterium lactofermentum</i> tryptophan operon," <i>Gene</i> , Vol. 138:35-41 (1994)		T ²
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	C26	Jäger, W. et al., "Expression of the <i>Bacillus subtilis</i> sacB Gene Leads to Sucrose Sensitivity in the Gram-Positive Bacterium <i>Corynebacterium glutamicum</i> but Not in <i>Streptomyces lividans</i> ," <i>Journal of Bacteriology</i> , Vol. 174(16):5462-5465 (1992)		
	C27	Jensen, Peter Ruhdal et al., "Artificial Promoters for Metabolic Optimization," <i>Biotechnology and Bioengineering</i> , Vol. 58(2&3):191-195 (1998)		
	C28	Kalinowski, Jörn et al., "The complete <i>Corynebacterium glutamicum</i> ATCC 13032 genome sequence and its impact on the production of L-aspartate-derived amino acids and vitamins," <i>Journal of Biotechnology</i> , Vol. 104:5-25 (2003)		
	C29	Kennell, David E., "Principles and Practices of Nucleic Acid Hybridization," <i>Progress in Nucleic Acid Research and Molecular Biology</i> , Vol. 11, J.N. Davidson, Ed., Academic Press, pgs. 259-301 (1971)		
	C30	Kronemeyer, Wolfgang et al., "Structure of the gluABCD Cluster Encoding the Glutamate Uptake System of <i>Corynebacterium glutamicum</i> ," <i>Journal of Bacteriology</i> , Vol. 177(5):1152-1158 (1995)		

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	C31	Kuninaka, Akira, "Nucleotides and Related Compounds," <i>Biotechnology</i> , Ed. Rehm et al., VCH, Vol. 6:561-612 (1996)		T ²
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	C35	Liebl, W. et al., "High efficiency electroporation of intact <i>Corynebacterium glutamicum</i> cells," <i>FEMS Microbiology Letters</i> , Vol. 65:299-304 (1989)		
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	C37	Malakhova, I.I. et al., "Thin-layer Chromatography of Free Amino Acids. Selection of Conditions for the Separation of L-Lysine, L-Homoserine, and L-Threonine," <i>Russian Biotechnology</i> , Vol. 11:26-31 (1996)		
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	C42	Michal, G., "Nucleotide und Nucleoside," <i>Biochemical Pathways: An Atlas of Biochemistry and Molecular Biology</i> , Ed. Wiley, pp. 99-107 (1999)		
	C43	Murakami, Yuji et al., "Construction of new excretion vectors: two and three tandemly located promoters are active for extracellular protein production from <i>Escherichia coli</i> ," <i>Applied and Microbiology Biotechnology</i> , Vol. 30:619-623 (1989)		
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	C47	Pátek, Miroslav et al., "Leucine Synthesis in <i>Corynebacterium glutamicum</i> : Enzyme Activities, Structure of <i>leuA</i> , and Effect of <i>leuA</i> Inactivation on Lysine Synthesis," <i>Applied and Environmental Microbiology</i> , Vol. 60(1):133-140 (1994)		
	C48	Pátek, Miroslav et al., "Promoters from <i>Corynebacterium glutamicum</i> : cloning, molecular analysis and search for a consensus motif," <i>Microbiology</i> , Vol. 142:1297-1309 (1996)		
	C49	Reinscheid, Dieter J. et al., "Cloning, sequence analysis, expression and inactivation of the <i>Corynebacterium glutamicum pta-ack</i> operon encoding phosphotransacetylase and acetate kinase," <i>Microbiology</i> , Vol. 145:503-513 (1999)		
	C50	Reinscheid, Dieter J. et al., "Stable Expression of <i>hom-1-thrB</i> in <i>Corynebacterium glutamicum</i> and Its Effect on the Carbon Flux to Threonine and Related Amino Acids," <i>Applied and Environmental Microbiology</i> , Vol. 60(1):126-132 (1994)		

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	C51	Sambrook, J. et al., "Analysis of Genomic DNA by Southern Hybridization," <i>Analysis and Cloning of Eukaryotic Genomic DNA, Molecular Cloning, A Laboratory Manual, 2nd Edition</i> , Cold Spring Harbor Laboratory Press, Vol. 2, pp. 9.31-9.62 (1989)		T ²
	C52	Sanger, F. et al., "DNA sequencing with chain-terminating inhibitors," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 74(12):5463-5467 (1977)		
	C53	Schäfer, Andreas et al., "Small mobilizable multi-purpose cloning vectors derived from the <i>Escherichia coli</i> plasmids pK18 and pK19: selection of defined deletions in the chromosome of <i>Corynebacterium glutamicum</i> ," <i>Gene</i> , Vol. 145:69-73 (1994)		
	C54	Schmidt, S. et al., "Near infrared spectroscopy in fermentation and quality control for amino acid production," <i>Bioprocess Engineering</i> , Vol. 19:67-70 (1998)		
	C55	Schrumpf, Bärbel et al., "A Functionally Split Pathway of Lysine Synthesis in <i>Corynebacterium glutamicum</i> ," <i>Journal of Bacteriology</i> , Vol. 173(14):4510-4516 (1991)		
	C56	Schwarzer, Astrid et al., "Manipulation of <i>Corynebacterium Glutamicum</i> by Gene Disruption and Replacement," <i>Bio/Technology</i> , Vol. 9:84-87 (1991)		
	C57	Serwold-Davis, Theresa M. et al., "Localization of an origin of replication in <i>Corynebacterium diphtheriae</i> broad host range plasmid pNG2 that also functions in <i>Escherichia coli</i> ," <i>FEMS Microbiology Letters</i> , Vol. 66:119-124 (1990)		
	C58	Shiosaka, Makoto, "Application of Trehalose," <i>FFI Journal</i> , Vol. 172:97-102 (1997)		
	C59	Simmonds, H.A., "The Enzymes of Nucleotide Biosynthesis," <i>Biochemical Society Transactions</i> , Vol. 23:877-902 (1995)		
	C60	Simon, R. et al., "A Broad Host Range Mobilization System for <i>In Vivo</i> Genetic Engineering; Transposon Mutagenesis in Gram Negative Bacteria," <i>Bio/Technology</i> , Vol. 1:784-791 (1983)		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/582,918-Conf. #8250
Sheet	10	of	12	Filing Date	June 14, 2006
				First Named Inventor	Burkhard KROGER
				Art Unit	1636
				Examiner Name	M. K. Joike
				Attorney Docket Number	PKI-186US

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	C61	Singer, Mike A. et al., "Thermotolerance in <i>Saccharomyces cerevisiae</i> : the Yin and Yang of trehalose," <i>Trends Biotech</i> , Vol. 16:460-467 (1998)	
	C62	Smith, Janet L., "Enzymes of nucleotide synthesis," <i>Current Opinion in Structural Biology</i> , Vol. 5:752-757 (1995)	
	C63	Sonnen, Hans et al., "Characterization of pGA1, a new plasmid from <i>Corynebacterium glutamicum</i> LP-6," <i>Gene</i> , Vol. 107:69-74 (1991)	
	C64	Spratt, Brian G. et al., "Kanamycin-resistant vectors that are analogues of plasmids pUC8, pUC9, pEMBL8 and pEMBL9," <i>Gene</i> , Vol. 41:337-342 (1986)	
	C65	Strauss, William M., "Hybridization with Radioactive Probes," <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, N.Y., pp. 6.3.1-6.3.6 (1993)	
	C66	Stryer, Lubert, "Amino Acid Degradation and the Urea Cycle" <i>Biochemistry, Third Edition</i> , W.H. Freeman and Company, pp. 495-516, Chapt. 21, (1988)	
	C67	Stryer, Lubert, "Biosynthesis of Amino Acids and Heme" <i>Biochemistry, Third Edition</i> , W.H. Freeman and Company, pp. 575-600, Chapt. 24, (1988)	
	C68	Tauch, Andreas et al., "Corynebacterium glutamicum DNA is subjected to methylation-restriction in <i>Escherichia coli</i> ," <i>FEMS Microbiology Letters</i> , Vol. 123:343-348 (1994)	
	C69	Tauch, Andreas et al., "The Erythromycin Resistance Gene of the <i>Corynebacterium xerosis</i> R-plasmid pTP10 Also Carrying Chloramphenicol, Kanamycin, and Tetracycline Resistances Is Capable of Transposition in <i>Corynebacterium glutamicum</i> ," <i>Plasmid</i> , Vol. 33:168-179 (1995)	
	C70	Tauschek, Marija et al., "Transcriptional analysis of the groESL operon of <i>Neisseria gonorrhoeae</i> ," <i>Gene</i> , Vol. 189:107-112 (1997)	

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Sheet	11	of	12	Attorney Docket Number	PKI-186US

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	C71	Thierbach, Georg et al., "Transformation of spheroplasts and protoplasts of <i>Corynebacterium glutamicum</i> ," <i>Applied Microbiology and Biotechnology</i> , Vol. 29:356-362 (1988).	
	C72	Thies, Frank L. et al., "Cloning, sequencing and molecular analysis of the <i>Campylobacter jejuni groESL</i> bicistronic operon," <i>Microbiology</i> , Vol. 145:89-98 (1999)	
	C73	Tsuchiya, Makoto et al., "Genetic Control Systems of <i>Escherichia Coli</i> Can Confer Inducible Expression of Cloned Genes in Coryneform Bacteria," <i>Bio/Technology</i> , Vol. 6:428-430 (1988)	
	C74	Ullmann's Encyclopedia of Industrial Chemistry, "Amino Acids," Eds. Barbara Elvers et al., VCH, Vol. A2:57-97 (1985)	
	C75	Ullmann's Encyclopedia of Industrial Chemistry, "Chemical Analysis," Eds. Barbara Elvers et al., VCH, Vol. A27:89-90 (1996)	
	C76	Ullmann's Encyclopedia of Industrial Chemistry, "Vitamins," Eds. Barbara Elvers et al., VCH, Vol. A27:443-613 (1996)	
	C77	Ullmann's Encyclopedia of Industrial Chemistry, "Vitamins," Eds. Barbara Elvers et al., VCH, Vol. A27:521-547 (1996)	
	C78	Ullmann's Encyclopedia of Industrial Chemistry, "Vitamins," Eds. Barbara Elvers et al., VCH, Vol. A27:559-566 (1996)	
	C79	Ullmann's Encyclopedia of Industrial Chemistry, "Vitamins," Eds. Barbara Elvers et al., VCH, Vol. A27:575-587 (1996)	
	C80	Umbarger, H.E., "Amino Acid Biosynthesis and its Regulation," <i>Ann. Rev. Biochem.</i> , Vol. 47:533-606 (1978)	

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	C81	Vašicová, Pavla et al., "Analysis of the <i>Corynebacterium glutamicum dapA</i> Promoter," <i>Journal of Bacteriology</i> , Vol. 181(19):6188-6191 (1999)			
	C82	Voet, Donald et al., "Nucleic Acid Structures and Manipulation," <i>Biochemistry</i> ; Wiley Press, Chapt. 28, pp. 896-897 (1995)			
	C83	Zalkin, Howard et al.; "De Novo Purine Nucleotide Biosynthesis," <i>Progress in Nucleic Acid Research and Molecular Biology</i> , Vol. 42:259-287 (1992)			
	C84	International Search Report for Application No. PCT/EP2004/014263, dated April 27, 2005			
	C85	International Search Report for Application No. PCT/EP2004/014337, dated April 1, 2005			
	C86	International Preliminary Report on Patentability for Application No. PCT/EP2004/014337, dated November 10, 2005			
	C87	International Search Report for Application No. PCT/EP2005/007758, dated December 20, 2005			
	C88	International Preliminary Report on Patentability for Application No. PCT/EP2005/007758, dated January 23, 2007			

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